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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/710,675	07/28/2004	Toshiharu Furukawa	BUR920040116US1	4310
30449 75	590 06/02/2005		EXAMINER	
SCHMEISER, OLSEN + WATTS			CHAUDHARI, CHANDRA P	
3 LEAR JET LANE SUITE 201			ART UNIT	PAPER NUMBER
LATHAM, NY	7 12110		2891	

DATE MAILED: 06/02/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
_	10/710,675	FURUKAWA ET AL.
Office Action Summary	Examiner	Art Unit
	Chandra Chaudhari	2891
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply if NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	ely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).
Status		
1) ⊠ Responsive to communication(s) filed on 11 Ma 2a) □ This action is FINAL. 2b) ⊠ This 3) □ Since this application is in condition for allowant closed in accordance with the practice under E.	action is non-final. ce except for formal matters, pro	
Disposition of Claims		
4) □ Claim(s) 1-32 is/are pending in the application. 4a) Of the above claim(s) 19-32 is/are withdraw 5) □ Claim(s) is/are allowed. 6) □ Claim(s) 1-18 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or		·
Application Papers		
9) The specification is objected to by the Examiner 10) The drawing(s) filed on 28 July 2004 is/are: a) Applicant may not request that any objection to the conference of the	☑ accepted or b) ☐ objected to b drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1 Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of	s have been received. Shave been received in Application ity documents have been receive (PCT Rule 17.2(a)).	on Nod in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 7-28-04, 8-9-04.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	
J.S. Patent and Trademark Office	·	

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Applicant's election with traverse of claims 1-18 in the reply filed on March 11, 2005 is acknowledged. The traversal is on the ground(s) that the search and examination could be made without serious burden. This is not found persuasive because according to MPEP 806.05(f), only one-way distinctness needs to be shown, and searching separate classes is clearly a burden.

The requirement is still deemed proper and is therefore made FINAL.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 12-18 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 12, step (c), there is no antecedent basis for "said first and second gates segments", and "gates" should be "gate".

In step (d), there is no antecedent basis for "said first PFET and said first NFET".

In step (d), there is no antecedent basis for "said second PFET and said second NFET".

In claim 13, line 3, there is no antecedent basis for "said sidewall layer".

In claim 16, line 4, "step (f) is performed after step (e)" is repeated and should be deleted.

In claim 17, line 3, there is no antecedent basis for "said insulating capping layer".

In claim 18, line 10, "secondPFET" should have a space between the words.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-8, 10 are rejected under 35 U.S.C. 102(b) as being anticipated by Noda – US 6,512,299.

Noda (Figs. 2-3(f) and text in col. 5, line 1 to col. 6, line 8) discloses the claimed invention by forming a polysilicon line 22 with sidewalls, gate dielectric 13, insulating sidewalls 15, contacting doped silicon region 17, silicide layer 23.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 9, 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Noda and Jung – US 6,335,279.

Noda is applied as above and does not disclose the polysilicon doped N-type or P-type nor an insulating capping layer over the top surface of the polysilicon. Jung (Figs. 3C-3F and text in col. 6,

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line 15 to col. 7, line 12) teaches that polysilicon 108 is doped, and capping layer 112, which has been simultaneously removed with the polysilicon.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to dope the polysilicon as taught by Jung in Noda's process to form a conductive layer of the proper resistivity, and a capping layer to protect the lower layers and prevent current leakage.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Son - US 6,066,534 describes gate electrodes with spacers.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chandra Chaudhari whose telephone number is 571-272-1688. The examiner can normally be reached on Mon - Fri (9:00-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bill Baumeister can be reached on 571-272-1722. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chandra Chaudhari Primary Examiner Art Unit 2891

C. Chardfari Chandra Chaudhari May 27, 2005